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## NOTICE OF ALLOWANCE AND FEE(S) DUE

38137

7590

09/15/2008

ABELMAN, FRAYNE & SCHWAB 666 THIRD AVENUE, 10TH FLOOR NEW YORK, NY 10017 EXAMINER
SEIFU, LESSANEWORK T
ART UNIT PAPER NUMBER

1797 DATE MAILED: 09/15/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/527.623	09/22/2006	Hani Al-Khalifa	206,901	5239	

TITLE OF INVENTION: CONTROLLED SUPPERHEATING OF NATURAL GAS FOR TRANSMISSION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$0	\$0	\$720	12/15/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notification	ed below or directed oth	ng the Patent, advance of nerwise in Block 1, by (a	rders and notification  a) specifying a new co	of m orres	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corre arate	espondence address as "FEE ADDRESS" for
	ENCE ADDRESS (Note: Use BI		Fee(	s) Transmittal. Thi	s certif	icate cannot be used f	or an	mestic mailings of the y other accompanying formal drawing, must	
	RAYNE & SCHV ENUE, 10TH FLOO			Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CC	ONFIRMATION NO.
10/527,623 TITLE OF INVENTION	09/22/2006 J: CONTROLLED SUPP	PERHEATING OF NATU	Hani Al-Khalifa JRAL GAS FOR TRA	NSM	IISSION		206,901		5239
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	OUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	Т	DATE DUE
nonprovisional	YES	\$720	\$0		\$0		\$720		12/15/2008
EXAMINER		ART UNIT	CLASS-SUBCLASS	3					
SEIFU, LESSANEWORK T 1797			048-127300		J				
CFR 1.363).  Change of corresp Address form PTO/S.  "Fee Address" ind PTO/SB/47; Rev 03-(Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Un recordation as set forter.	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	inge of Correspondence	data will appear on the T a substitute for filing	ip to rnative single or a attor ll be por typ he pa g an a	3 registered patentely, efirm (having as a gent) and the nammeys or agents. If printed.  e) ttent. If an assign assignment.	membes of upno name	er a 2	ocum	ent has been filed for
4a. The following fee(s)  ☐ Issue Fee ☐ Publication Fee (N	riate assignee category or are submitted: No small entity discount p	permitted)	o. Payment of Fee(s): (  A check is enclose  Payment by credi	(Plea sed.	Individual	orporati ny prev is atta	on or other private gro iously paid issue fee ched.	show	n above)
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	itus (from status indicated as SMALL ENTITY statu		☐ b. Applicant is no	long	ger claiming SMAl	L EN	TITY status. See 37 Cl	FR 1.	27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte ttes Patent and Trademark	d from anyone other the Office.	nan th	ne applicant; a regi	stered a	ttorney or agent; or th	ne ass	ignee or other party in
Authorized Signature					Date				
Typed or printed name			Registration No.						
an application. Confiden	tiality is governed by 35 d application form to the ions for reducing this bu. Jirginia 22313-1450. DC	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR	1.14. This collection i depending upon the i	is esti indiv	imated to take 12 i idual case. Anv co	ninutes mment	to complete, including s on the amount of tip	ig gat me vo	hering, preparing, and ou require to complete

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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/527,623	10/527,623 09/22/2006		Hani Al-Khalifa	206,901	5239		
38137 7590 09/15/2008 ABELMAN, FRAYNE & SCHWAB				EXAMINER			
				SEIFU, LESSANEWORK T			
666 THIRD AVENUE, 10TH FLOOR		TH FLOOR		ART UNIT	PAPER NUMBER		
NEW YORK, NY 10017				1797			
				DATE MAILED: 09/15/2008			

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 298 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 298 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)						
	10/527,623	AL-KHALIFA ET AL.						
Notice of Allowability	Examiner	Art Unit						
	Lessanework T. Seifu	1797						
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subjection	application. If not included tion will be mailed in due course. <b>THIS</b>						
1. This communication is responsive to the application filed on	<u>n 03/10/2005</u> .							
2. The allowed claim(s) is/are <u>1-16</u> .								
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>								
2. ☐ Certified copies of the priority documents have		·						
3. ☐ Copies of the certified copies of the priority do	, ,							
International Bureau (PCT Rule 17.2(a)).								
* Certified copies not received:								
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.								
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.								
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	et be submitted.							
(a) ☐ including changes required by the Notice of Draftspers	(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached							
1) ☐ hereto or 2) ☐ to Paper No./Mail Date								
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date								
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the								
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT								
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informa	al Patent Application						
Notice of References Cited (PTO-092)     Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summ	• •						
_ ,	Paper No./Mail	Date						
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 10/05/06	7. Examiner's Ame	ndment/Comment						
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	<u>—</u>	ement of Reasons for Allowance						
	9. ☐ Other							

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#### **DETAILED ACTION**

### Allowable Subject Matter

#### 1. Claims 1-16 are allowed.

The following is an examiner's statement of reasons for allowance: Claims 1-16 are allowed because the prior art fails to disclose or render obvious a method and system for controlled superheating of a compressed natural gas stream for transmission through a pipeline, comprising: dividing a stream of natural gas discharged from a high pressure gas compressor into a first portion and a second portion; passing the first portion of the gas from the gas compressor to a heat exchanger to heat the gas to a predetermined temperature; passing the first portion of gas exiting the heat exchanger to an aftercooler; passing the second portion of natural gas discharged from the gas compressor to the aftercooler without passing it through the heat exchanger, the second portion of gas and the first portion of gas being mixed at the aftercooler inlet and cooled by the aftercooler and discharged from the aftercooler as a cooled gas stream having a temperature no greater than a first temperature; passing the cooled gas stream from the aftercooler to a liquid discharge drum to remove condensate from the cooled gas and discharging from the drum a partially dried gas stream at a second temperature; passing the partially dried gas stream from the discharge drum to the heat exchanger in heat exchanging relation with the first portion of gas from the gas compressor, and superheating at least a portion of the gas stream to a third temperature, the third temperature being controlled by an automated control loop responsive to a differential pressure across the gas compressor.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Rojey et al. (US 5,983,915) disclose a method for transporting a compressed natural gas stream from a first point to a destination location through a pipeline, comprising injecting a liquid fraction and anticorrosive additive at least at the first point of the pipeline(see col. 2 lines 25 to line 39 and col. 3, lines 1 to 10).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lessanework T. Seifu whose telephone number is (571)270-3153. The examiner can normally be reached on Mon-Thr 7:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Griffin can be reached on 571-272-1447. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/L. T. S./ Examiner, Art Unit 1797

/Walter D. Griffin/
Supervisory Patent Examiner, Art Unit 1797